

ABSTRACT OF THE DISCLOSURE

Antibody molecules specific for surface structures of antigen presenting cells that have been modified to include an antigen moiety at a specific site therein to produce novel conjugate antibody molecules are disclosed. These conjugate molecules are produced by genetic modification of genes encoding light and heavy chains of the surface structure specific antibody, and expression in mammalian cells to produce the conjugate antibody. The conjugate antibody retained specificity for antigen presenting cells and contained the antigen moiety. The conjugate antibody molecules deliver the antigen to antigen presenting cells to produce an enhanced immune response to a host immunized therewith. The conjugate antibody molecules and nucleic acid molecules encoding them are useful as antigens and as immunogens in diagnostic and prophylactic applications.